Organizers:

香港中文大學
The Chinese University of Hong Kong

香港中文大學醫學院
Faculty of Medicine
The Chinese University of Hong Kong

Department of Orthopaedics and Traumatology
CUHK

CUHK SPORTS MEDICINE
中大運動醫學

CUHK RESEARCH SUMMIT SERIES

Co-organizer:

Asia-Pacific Knee, Arthroscopy and Sports Medicine Society
APKASS

2023
SPORTS BIOMECHANICS RESEARCH SUMMIT

DATE: 15 APRIL 9 AM – 6:30 PM (SAT)
16 APRIL 9 AM – 1 PM (SUN)

REGISTRATION

PUBLIC LECTURE SERIES

- I. BIOMECHANICS IN KNEE SURGERY
- II. ACL INJURY MECHANISM & PREVENTION
- III: ELITE SPORTS
- IV: REHABILITATION & DANCE MEDICINE
- V: SHOULDER BIOMECHANICS
- VI: SPORT PERFORMANCE & ADVANCED TECHNIQUE

RESEARCH PROJECT PRESENTATION

SBRSUMMIT2023.COM

VENUE: 209, CHENG YU TUNG BUILDING, THE CHINESE UNIVERSITY OF HONG KONG

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DATE: 15 & 16 APRIL 2023

SPORTS BIOMECHANICS RESEARCH SUMMIT

VENUE: 209, CHENG YU TUNG BUILDING, THE CHINESE UNIVERSITY OF HONG KONG

DAY 1

TIME	TOPIC	SPEAKERS
08:30 – 09:00	Registration	
09:00 – 09:10	**Opening**	
	Public Lecture Series I: Biomechanics in Knee Surgery	**Moderators: Dr. Michael Ong, Dr. Jonathan Ng**
09:10 – 09:30	ACL injury and post traumatic arthritis	Prof. Benjamin Ma
09:30 – 09:50	Pivot-shift measurement based approach for improving ACL reconstruction	Prof. Yuichi Hoshino
09:50 – 10:10	Kinematics for XR Total knee replacement	Dr. Michael Ong
	Break (10:20 – 10:30)	
	Public Lecture Series II: ACL Injury Mechanism & Prevention	**Moderators: Dr. Wen Wang, Dr. Kam Ming Mok**
10:30 – 10:50	ACL injury mechanisms-lessons learned from video analyses	Prof. Hideyuki Koga
10:50 – 11:10	Beyond the peak knee abduction moment as a biomechanical ACL injury risk factor	Dr. Mark Robinson
11:10 – 11:30	An overview of applied biomechanics for ACL injury prevention, running shoe assessment, and calf muscle testing	Dr. Kim Hébert-Losier
11:30 – 11:50	The risk factors of second ACL injury: Biomechanical asymmetries persist after ACL reconstruction	Prof. Yuka Kimura
11:50 – 12:10	Effect of acupuncture and moxibustion on enhancing knee stiffness and knee torque for preventing ACL injury	Prof. Dan Wang
	Lunch (12:30 – 14:00)	
	Public Lecture Series III: Elite Sports	**Moderator: Dr. Daniel Fong**
14:00 – 14:20	How to translate from research to practice in high performance sport —the Australian Institute of Sport approach	Dr. Paolo Menaspà
14:20 – 14:40	Using technology to manage Return to Play in the elite sport environment	Dr. Ina Janssen
14:40 – 15:00	Motion analysis of elite race walkers during treadmill and overground race walking	Prof. Qipeng Song
	Break (15:00 – 15:10)	
	Public Lecture Series IV: Rehabilitation & Dance Medicine	**Moderators: Prof. Amy Fu, Dr. Samuel Ling**
15:10 – 15:30	Trauma and rehabilitation biomechanics – tools for interdisciplinary translational research	Prof. Anthony Bull
15:30 – 15:50	Rehabilitation of chronic ankle instability- what are the issues?	Prof. Claire Hiller
15:50 – 16:10	The balancing act between biomechanical constraints and ballet technique in the pursuit of athletic artistry	Dr. Luke Hopper
16:10 – 16:30	Biomechanics in sport rehabilitation – the role of exercise in low back pain	Prof. Veni Kong
	Break (16:40 – 16:50)	
	Public Lecture Series V: Shoulder Biomechanics	**Moderators: Prof. Patrick Yung, Dr. Jonathan Ng**
16:50 – 17:10	Function of scapula for safely producing proximal-to-distal rotations in throwing	Prof. Toshimasa Yanai
17:10 – 17:30	Biomechanics of shoulder dislocation	Prof. Nobuyuki Yamamoto
17:30 – 17:50	Biomechanics of rotator cuff tears: Why SCR works?	Prof. Teruhisa Mihata
17:50 – 18:10	How to make overhead athletes with shoulder pain return to the game: Physical therapy and biomechanics	Prof. Teruhisa Mihata

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DAY 2

TIME	TOPIC	SPEAKERS
08:30 – 09:00	Registration	
Public Lecture Series VI: Sport Performance & Advanced Technique		**Moderators: Dr. Kam Ming Mok, Miss Kate Yung**
09:00 – 09:20	Myth and fact in soccer kicking: which should we count on?	Prof. Hiroyuki Nunome
09:20 – 09:40	Muscle stiffness is an important consideration for optimising neuromechanical properties and athletic performance	Prof. Mark Watsford
09:40 – 10:00	Application of wearable sensor and computer vision for sports enhancement	Prof. Roy Cheung
10:00 – 10:20	Sports performance – segmental sequencing in overarm throwing	Dr. Allan Fu
Break (10:30 – 10:40)		
Research Project Presentation		**Moderators: Dr. Michael Ong, Dr. Daniel Fong**
10:40 – 10:55	Effects of whole body vibration on quadriceps neuromuscular function and knee function before ACL reconstruction	Miss Lisa Jihong Qiu
10:55 – 11:10	The effect of whole body vibration on dynamic knee stability for ACL injury prevention	Dr. Xin He
11:10 – 11:25	Clinical effects of pulsed electromagnetic field therapy in the treatment of Achilles tendinopathy: A randomized controlled trial	Miss Violet Man Chi Ko
11:25 – 11:40	Effect of biophysical interventions on balance and postural control in patients with ankle instability: A systematic review	Miss Ping Zhang
Break (11:40 – 11:50)		
11:50 – 12:05	Modifying runners' gait in real-world conditions	Miss Zoe Chan
12:05 – 12:20	Performance and biomechanics investigation of cue sports	Dr. Jingwen Pan
12:20 – 12:35	Does isolated knee or hip extension strength training affect motor coordination in the rear foot elevated split squat?	Mr. Ignas Palamarcukas
12:35 – 12:50	Bread, egg and milk. Can we discover rules that may support clinicians in planning rehabilitation programs?	Miss Kate Yung
12:50	Conclusion Remarks	Prof. Patrick Yung